

FIG. 1A

100

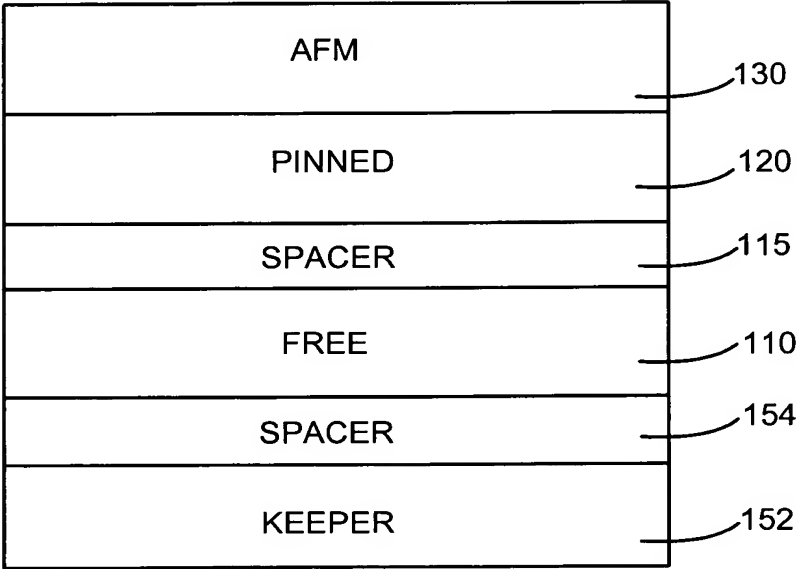


FIG. 1B

150

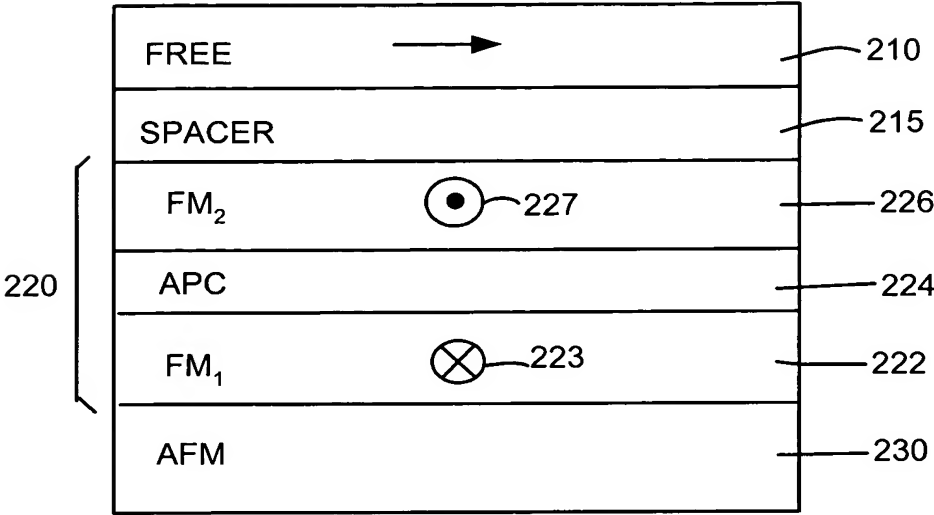


FIG. 2A

200

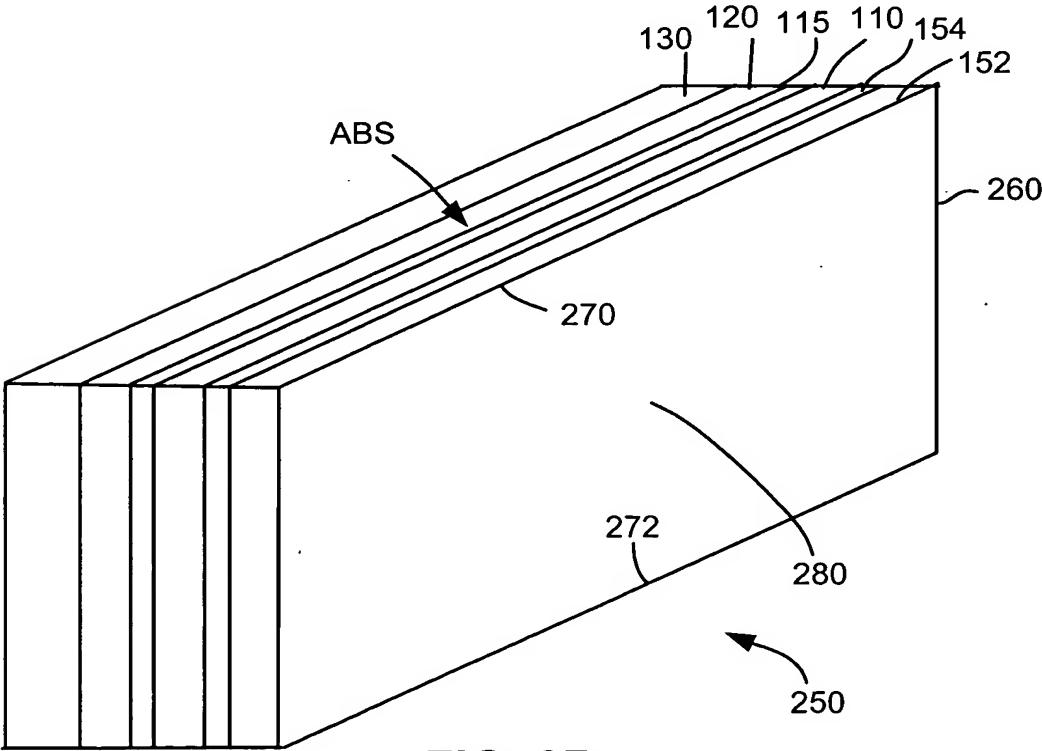


FIG. 2B

250

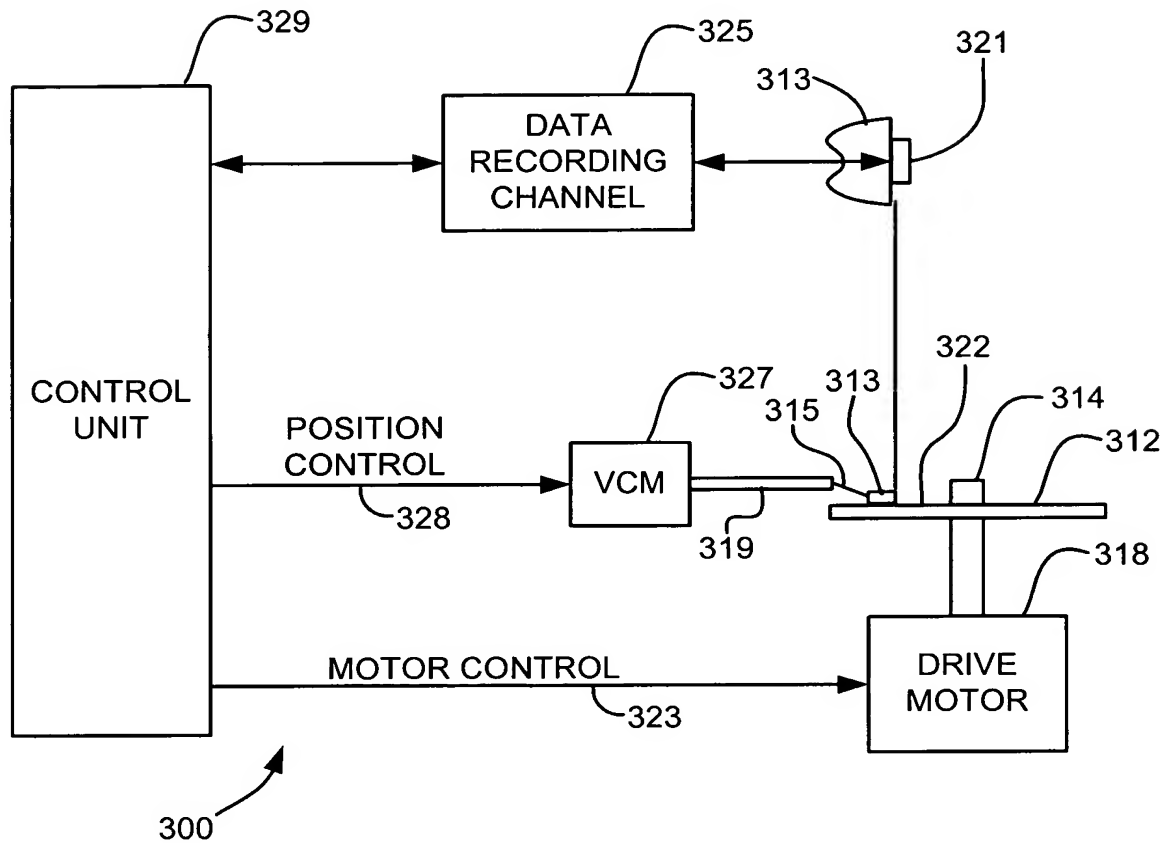


FIG. 3

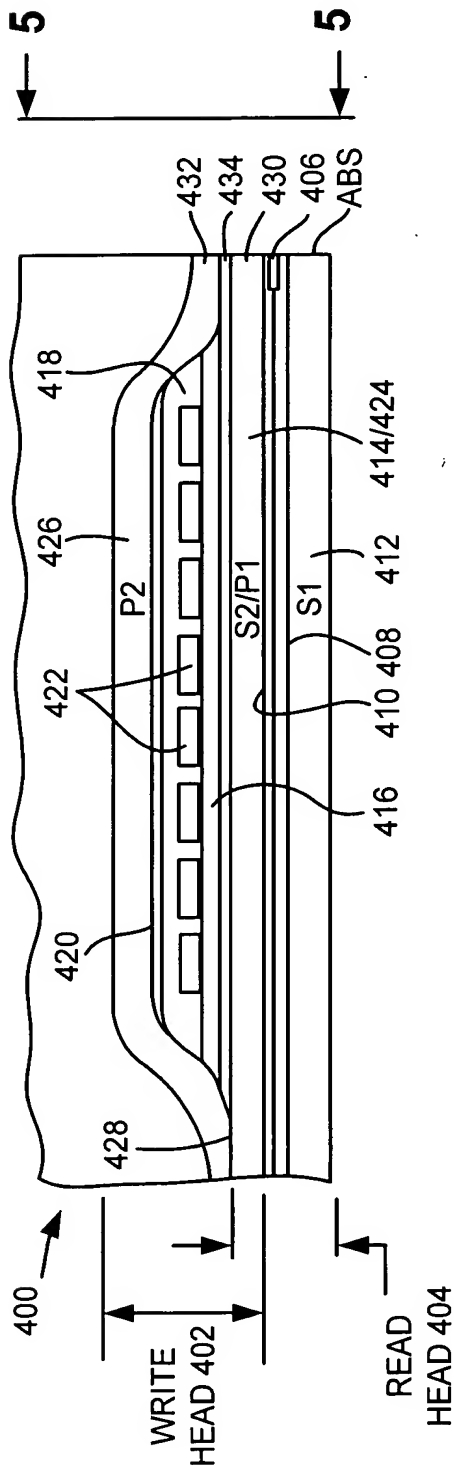


FIG. 4

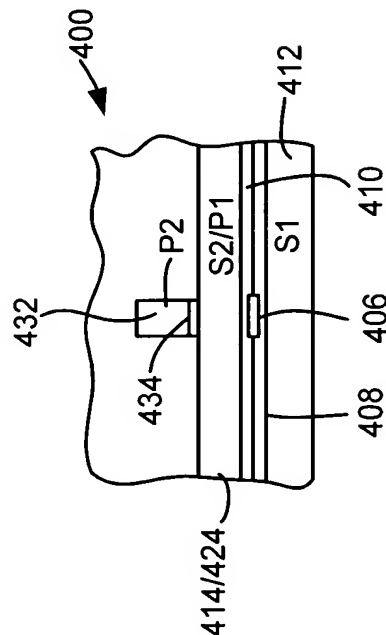


FIG. 5

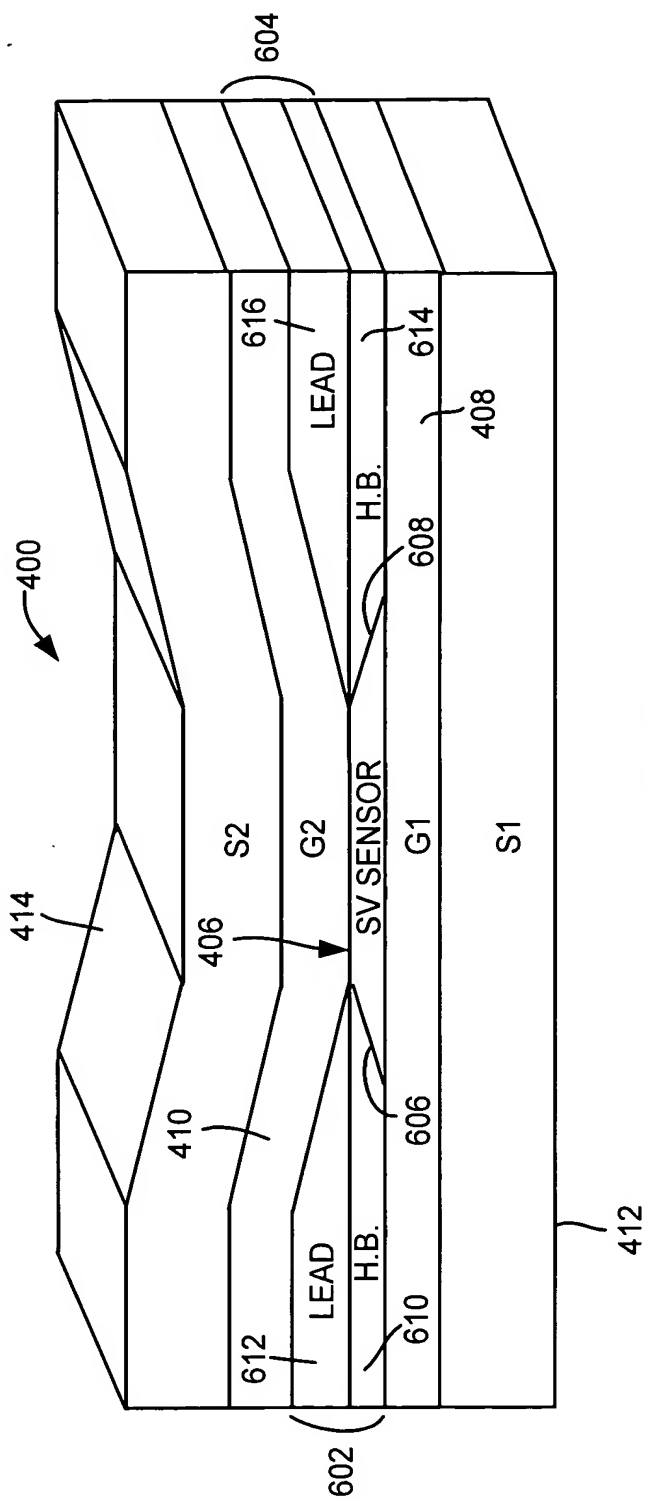


FIG. 6

700

| | Head A | Head B | Head C | Head D | Head E | Head F | Head G | Standard |
|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| SL1 | Al2O3 30A | Al2O3 30A | Al2O3 30A | Al2O3 30A | Al2O3 30A | Al2O3 30A | Al2O3 30A | Al2O3 30A |
| SL2 | Ta 30A | Ta 30A | Ta 30A | Ta 30A | Ta 30A | Ta 30A | Ta 30A | NiFeCr 25A |
| SL3 | NiFeCr 15A | NiFeCr 25A | NiFeCr 30A | NiFeCr 40A | NiFeCr 50A | NiFeCr 25A | NiFeCr 25A | NiFe 8A |
| SL4 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | PtMn 30A |
| AP1 | CoFe 17A | CoFe 17A | CoFe 17A | CoFe 17A | CoFe 17A | CoFe 17A | CoFe 17A | CoFe 17A |
| APC | Ru 8A | Ru 8A | Ru 8A | Ru 8A | Ru 8A | Ru 8A | Ru 8A | Ru 8A |
| AP2 | Co 17A | Co 17A | Co 17A | Co 17A | Co 17A | Co 17A | Co 17A | Co 17A |
| SP1 | CuO 18.8A | CuO 18.8A | CuO 18.8A | CuO 18.8A | CuO 18.8A | CuO 18.8A | CuO 18.8A | CuO 18.8A |
| FL1 | CoFe 10A | CoFe 10A | CoFe 10A | CoFe 10A | CoFe 10A | CoFe 10A | CoFe 10A | CoFe 10A |
| FL2 | NiFe 15A | NiFe 15A | NiFe 15A | NiFe 15A | NiFe 15A | NiFe 15A | NiFe 15A | NiFe 15A |
| Cap | Ta 40A | Ta 40A | Ta 40A | Ta 40A | Ta 40A | Ta 40A | Ta 40A | Ta 40A |
| | | | | | | | | |
| dR/R | 11.18 | 16.83 | 17.51 | 18.01 | 17.63 | 16.4 | 16.5 | 15 |
| R | 31 | 26.58 | 26.16 | 25.14 | 24.44 | 26.5 | | 25 |
| | | | | | | | | |
| Magnetostriktion | | 19x10-6 | | | | 24x10-6 | 13x10-6 | 12x10-7 |

FIG. 7

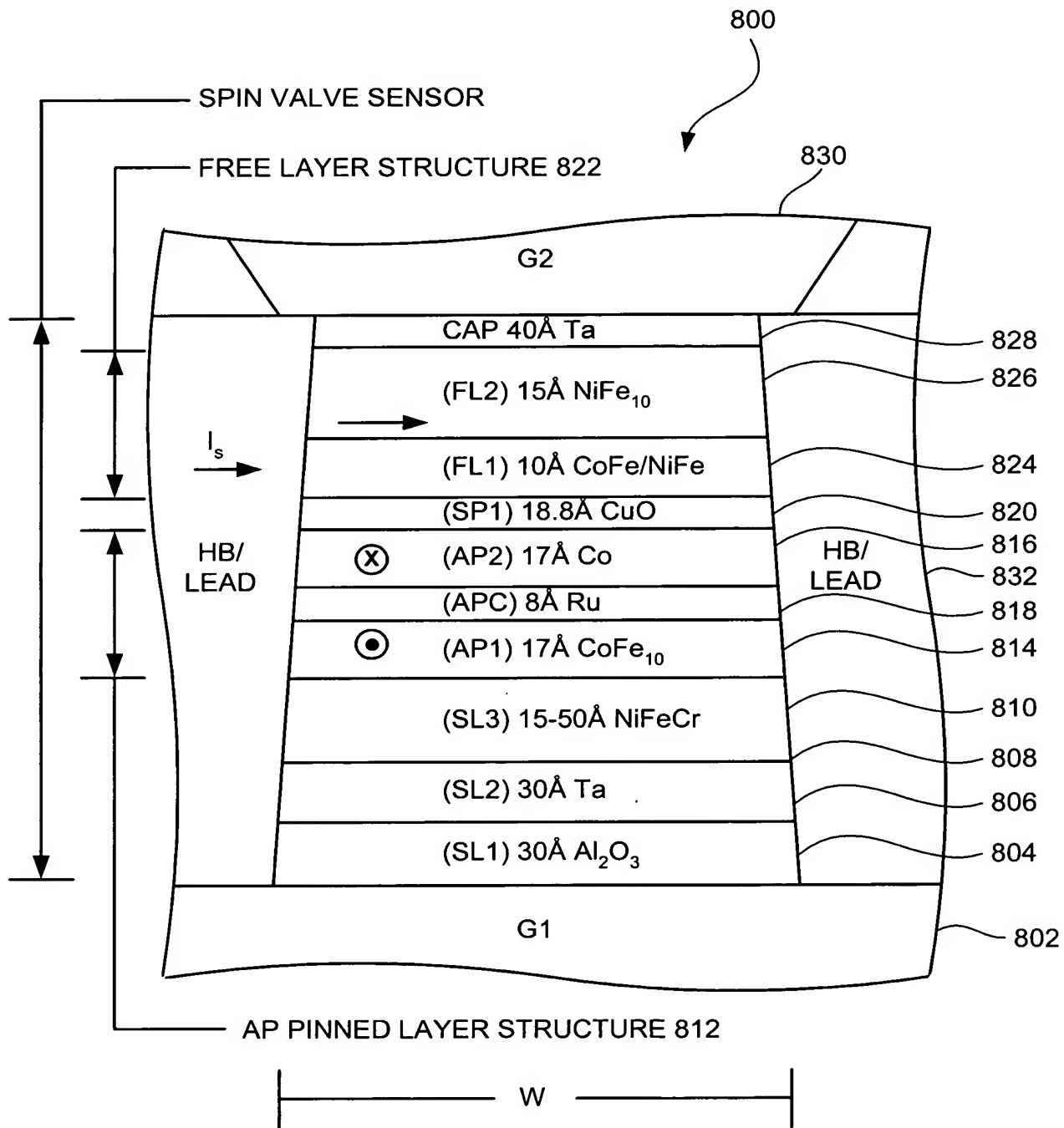


FIG. 8

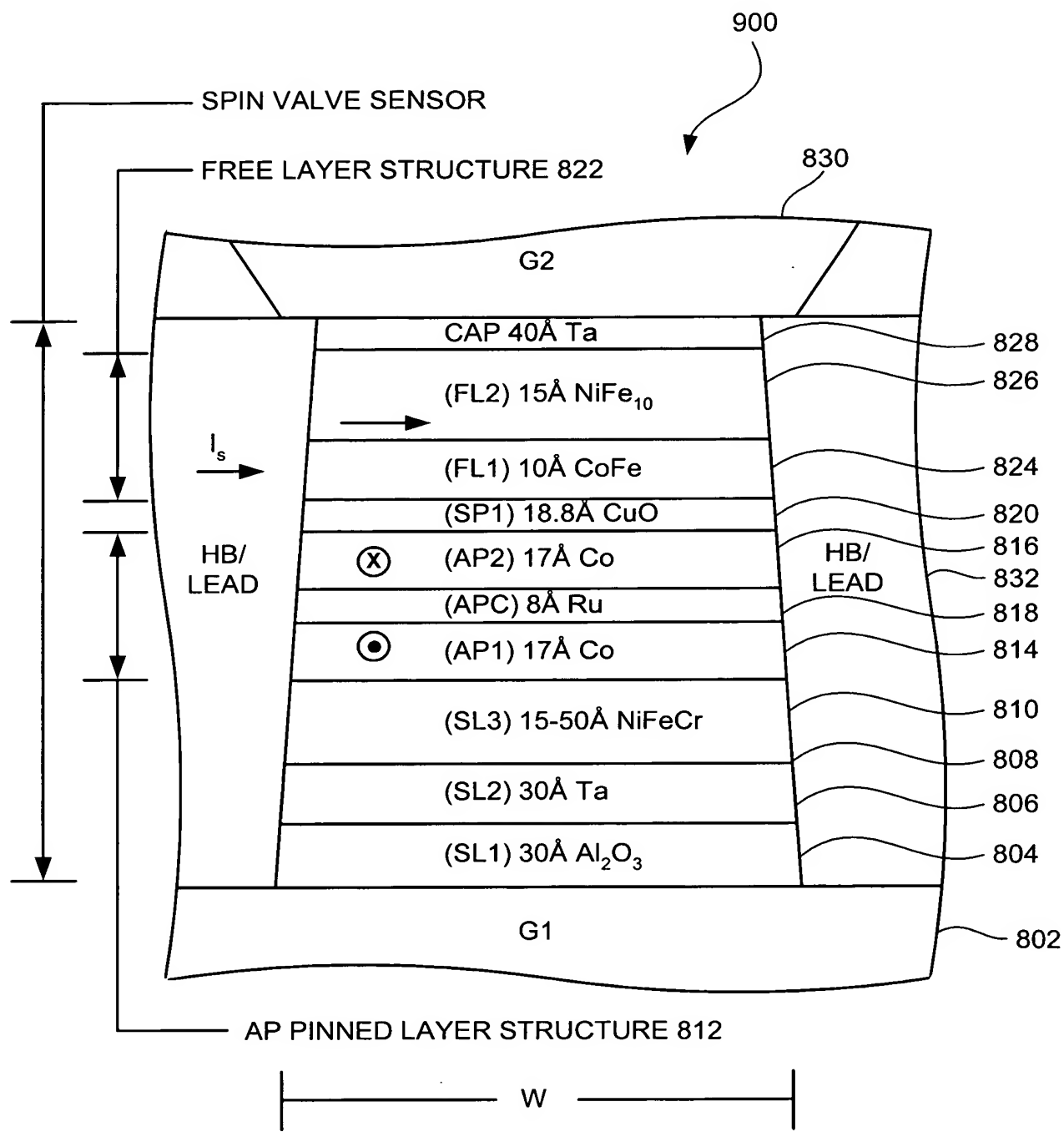


FIG. 9

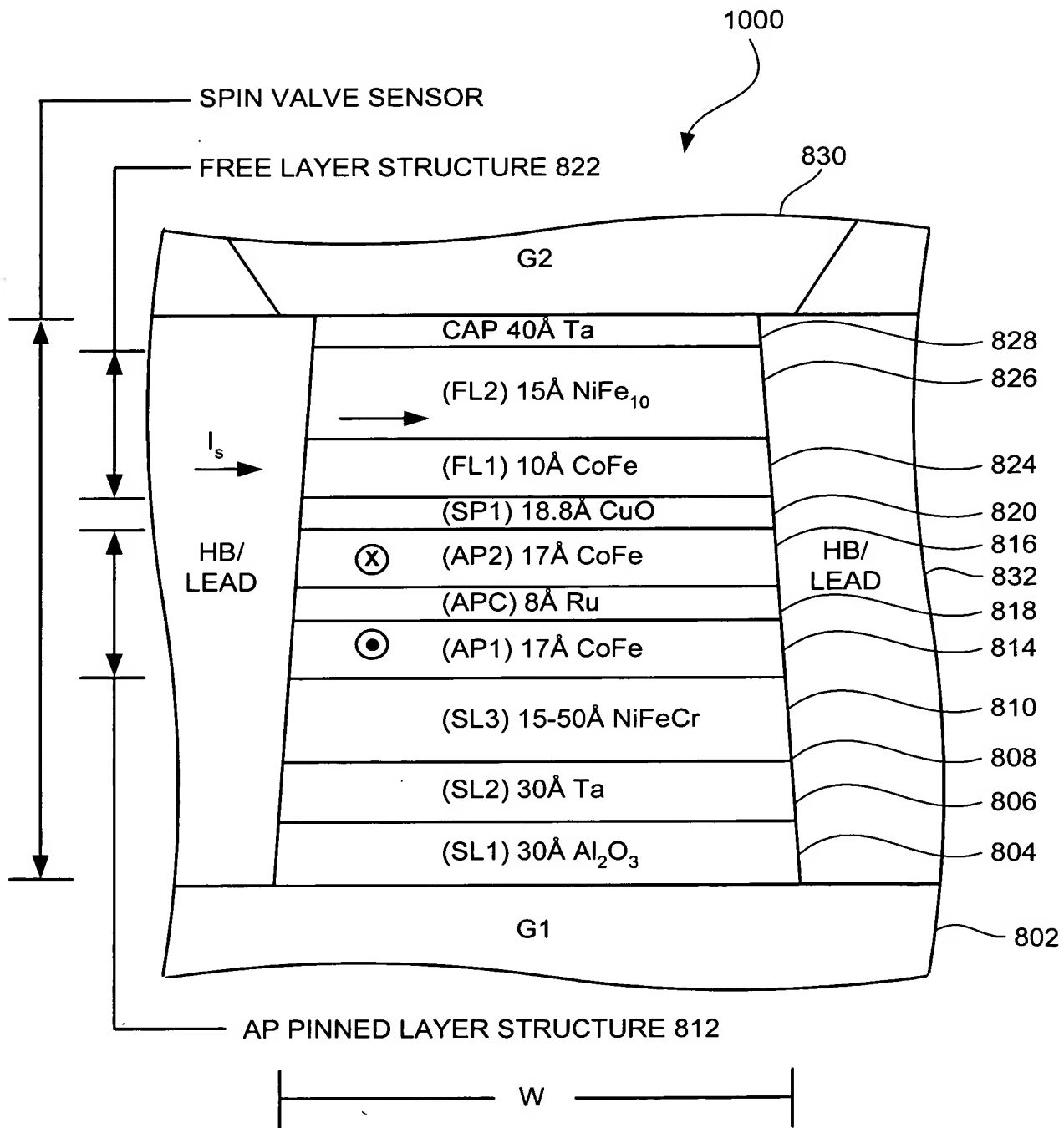


FIG. 10

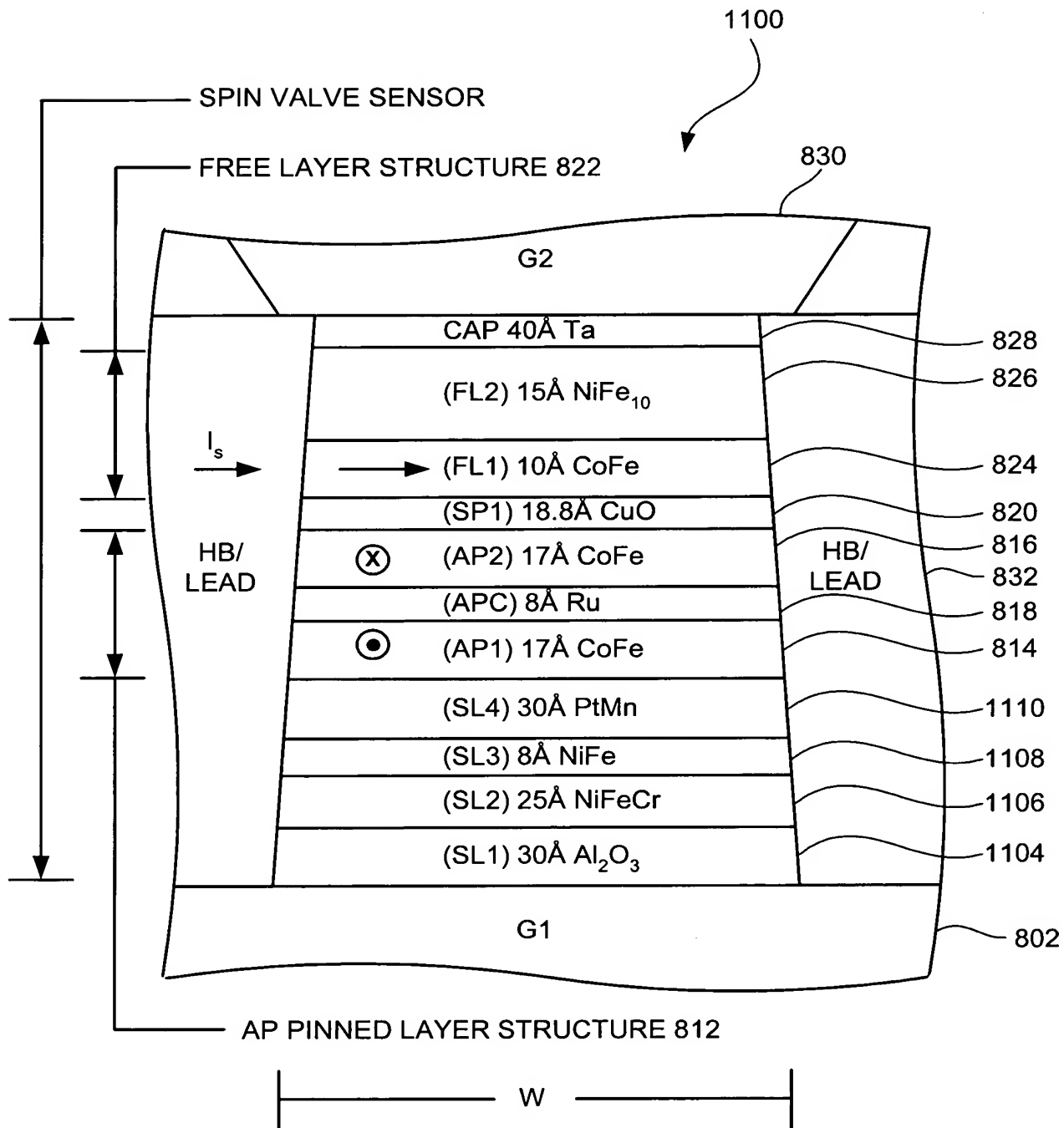


FIG. 11